

CLAIMS

1. A crush-resistant, acoustically effective floor covering for a motor vehicle, in particular a commercial vehicle, comprising a decorative layer (2) and a crush-resistant blow moulded part (3) arranged underneath the decorative layer, characterised in that on the top, the blow moulded part (3) comprises an essentially closed cover plate (5) while on the bottom it comprises a structural component (6), wherein the wall thickness (d1) of the cover plate (5) is different from that (d2) of the structural component (6) and wherein the structural component (6) comprises a plurality of box-shaped or cup-shaped hollow chambers (7) which are open on one side but closed on the underside, wherein at least some of the hollow chambers (7) which are closed off to the outside form part of a common air space enclosed between the cover plate (5) and the structural component (6), and wherein the structural component (6) is underfoamed by foam material (4).
2. The floor covering according to claim 1, characterised in that the hollow chambers (7) differ in size and/or differ in depth.
3. The floor covering according to claim 1 or 2, characterised in that the decorative layer (2) is directly glued to the cover plate (5) of the blow moulded part (3).
4. The floor covering according to any one of claims 1 to 3,

characterised in that
the decorative layer (2) is a carpet floor covering.

5. The floor covering according to any one of claims 1 to 4,
characterised in that
a layer (4), arranged underneath the blow moulded part (3), is made from foam material and non-woven material.
6. The floor covering according to any one of claims 1 to 5,
characterised in that
the layer (4), which is arranged underneath the blow moulded part (3), is made from a soft foam material, preferably a polyurethane foam material.
7. The floor covering according to any one of claims 1 to 6,
characterised in that
at least one cable channel (20), at least one air conduit (21) and/or at least one receptacle for accommodating one or several functional components are integrated in the blow moulded part (3).
8. The floor covering according to any one of claims 1 to 7,
characterised in that
at least one cable channel (20', 20'', 20''') is integrated in the layer (4) made of porous and/or elastic material, which layer (4) is arranged underneath the blow moulded part (3).
9. The floor covering according to any one of claims 1 to 8,

characterised in that
the blow moulded part (3) is made from
polypropylene, preferably from fibre-reinforced
polypropylene.

10. The floor covering according to any one of claims 1
to 9,
characterised in that
between the cover plate (5) and the structural
component (6) of the blow moulded part (3) in the
region of the hollow chambers (7) there are spot-
shaped or line-shaped welds (13, 13', 13'') between
chamber walls (8, 9, 8', 9') of the hollow chambers
(7) and the cover plate (5).
11. The floor covering according to claim 10,
characterised in that
hollow chambers (7) are formed whose chamber walls
while of essentially identical depths are partly
welded to the cover plate (5) and partly face the
cover plate (5) forming a free collar and leaving an
air gap (a) between a front face of the chamber wall
(8, 8', 9, 9') and the cover plate (5).
12. The floor covering according to any one of claims 1
to 11,
characterised in that
on the edge side there is a one-piece transition
between the structural component (6) and the cover
plate (5).